

MODIFICATION INSTRUCTIONS

for the

KODAK MINILOADER 2 PLUS LOW VOLTAGE, MODELS STAND-ALONE, M35-M & 480RA

Service Codes 3419, 3420 & 3421

MODIFICATION No. M05

and

All other MINILOADERS fitted with HUMIDIFIERS in the SERIAL NUMBER RANGE detailed below.

Type 1 REQUIRED

PURPOSE:

To add a FUSE to the HUMIDIFIER ASSEMBLY to prevent possible TRANSFORMER damage. A screened power supply lead and an EMI FILTER are also added to protect the HUMIDIFIER MICROPROCESSOR from electrical transients.

IMPORTANT: Only qualified service personnel should install this modification!

SERIAL NUMBERS: Model Stand-Alone (3419)6001 - 6003

Model M35-M (3420)5001 - 5043 Model 480RA (3421)7001 - 7003 ER 1 & 1M HUMIDIFIERS H101 - H142

MINILOADER 1 & 1M HUMIDIFIERS H101 - H142 MINILOADER 2 & 2 PLUS HUMIDIFIERS H301 - H387

INSTALLATION TIME: Approximately 30 minutes.

SPECIAL TOOLS: None

PARTS AVAILABILITY: January 1995.

PARTS REQUIREMENT: Modification Kit 29054596

See parts list on Page 2

PARTS LIST

PART NO.	DESCRIPTION	QUANTITY	
29054596	MODIFICATION KIT M05	1	
THE KIT CONTAINS:			
30027226	FILTER AND FUSE ASSEMBLY	1	
30027230	WIRE TIE	10	
30027225	# FUSE T500 mA, 5 x 20 mm	1	
30025644	* FUSE T2A, 5 x 20 mm	1	
30015669	WASHER, STAR, M4	1	
30027231	* CABLE NUMBERING KIT	1	
MA3420-M05	MODIFICATION INSTRUCTIONS	1	

[#] REQUIRED FOR MINILOADER 2 PLUS LOW VOLTAGE ONLY.

^{*} REQUIRED FOR ALL KIT TYPE HUMIDIFIERS ONLY (FITTED AS MODIFICATIONS).





This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

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IMPORTANT

FOR MINILOADER 2 PLUS LOW VOLTAGE USE THE INSTRUCTIONS ON PAGES 4 AND 5.

FOR MINILOADER 2 PLUS FITTED WITH MODIFICATION M08 (HUMIDIFIER ASSEMBLY) USE THE INSTRUCTIONS ON PAGES 6 AND 7.

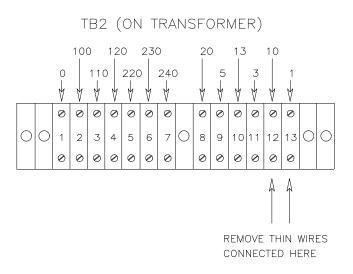
FOR MINILOADER 1 FITTED WITH MODIFICATION M35 (HUMIDIFIER ASSEMBLY) USE THE INSTRUCTIONS ON PAGES 8 AND 9.

FOR MINILOADER 1 M FITTED WITH MODIFICATION M04 (HUMIDIFIER ASSEMBLY) USE THE INSTRUCTIONS ON PAGES 6 AND 7.

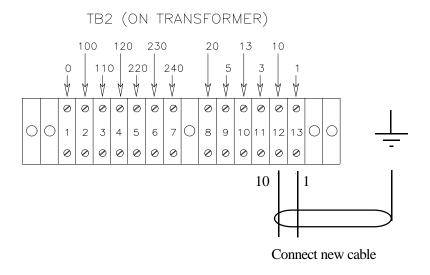
FOR MINILOADER 2 (U.K. ONLY) FITTED WITH MODIFICATION M01 (HUMIDIFIER ASSEMBLY) USE THE INSTRUCTIONS ON PAGES 6 AND 7.

MODIFICATION INSTRUCTIONS FOR MINILOADER 2 PLUS LOW VOLTAGE.

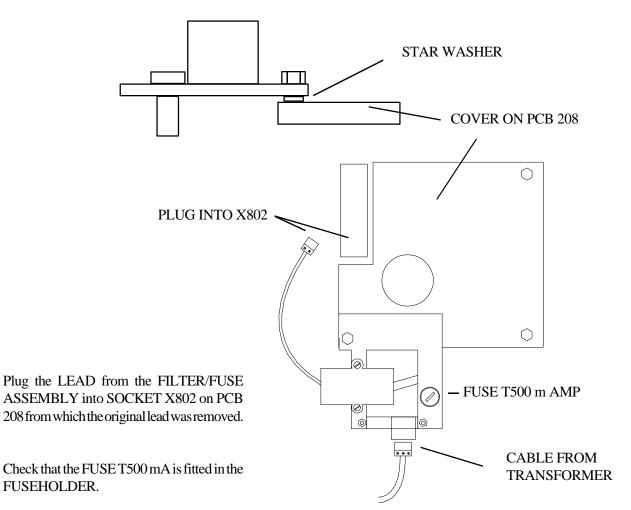
- 1. Switch off the MINILOADER, and remove the HUMIDIFIER PANEL. When removing the PANEL make sure all LEADS are carefully disconnected.
- 2. Disconnect the original HUMIDIFIER POWER SUPPLY LEADS from TB2-12 and TB2-13 (the thin WIRES) on the TRANSFORMER. See drawing below.



- 3. Cut the WIRE TIES, remove and discard the old lead.
- 4. Feed the new LEAD into the MINILOADER using the same routing as the original LEAD. **NOTE THE POWER SUPPLY LEAD MUST NOT TOUCH HIGH VOLTAGE OR MOVING PARTS.**
- 5. Connect the new screened LEAD to the TRANSFORMER. WIRE marked 10 to TB2-12, WIRE marked 1 to TB2-13 and GROUND LEAD to TRANSFORMER chassis. Fit the new WIRE TIES to secure the LEAD.



6. Mount the FILTER/FUSE ASSEMBLY on the COVER over PCB 208 on the HUMIDIFIER as shown below. Use the existing SCREW and fit the STAR WASHER between the two PLATES.

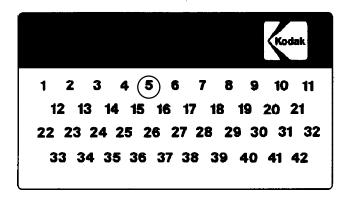


9. Refit the HUMIDIFIER PANEL making sure all LEADS are connected. The new LEAD from the TRANSFORMER plugs into the SOCKET on the FILTER/FUSE ASSEMBLY.

7.

8.

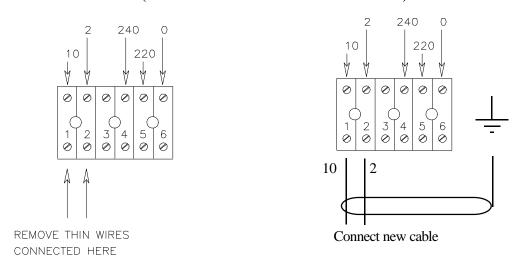
10. Circle MODIFICATION M05 on the MODIFICATION LABEL and check the HUMIDIFIER ASSEMBLY is operating correctly.



MODIFICATION INSTRUCTIONS FOR MINILOADER 2 PLUS FITTED WITH MOD M08, FOR MINILOADER 1M FITTED WITH MOD M04 AND FOR MINILOADER 2 (U.K. ONLY) FITTED WITH MOD M01.

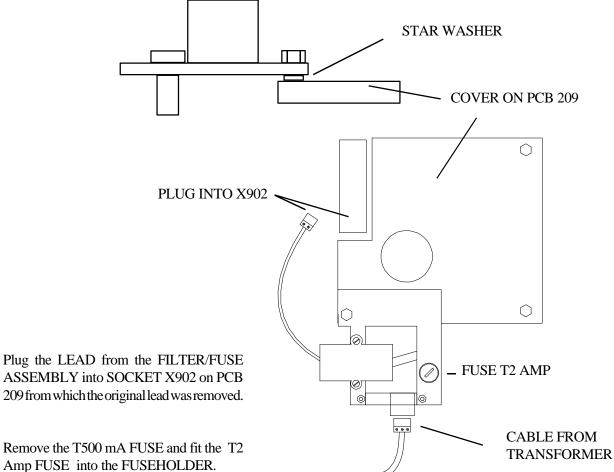
- 1. Switch off the MINILOADER, and remove the HUMIDIFIER PANEL. When removing the PANEL make sure all LEADS are carefully disconnected.
- 2. Disconnect the original HUMIDIFIER POWER SUPPLY LEADS from TB3-1 and TB3-2 (the thin WIRES) on the small (10 Volt) TRANSFORMER. See drawing below.

TB3 (ON SMALL - 10 VOLT - TRANSFORMER)



- 3. Cut the WIRE TIES, remove and discard the old lead.
- 4. On both ends of the new screened POWER SUPPLY LEAD remove the CABLE MARKERS 1 and replace with the MARKERS 2 from the CABLE NUMBERING KIT 30027231.
- 5. Feed the new LEAD into the MINILOADER using the same routing as the original LEAD. **NOTE THE POWER SUPPLY LEAD MUST NOT TOUCH HIGH VOLTAGE OR MOVING PARTS.**
- **6.** Connect the new screened LEAD to the TRANSFORMER. WIRE marked 10 to TB3-1, WIRE marked 2 to TB3-2 and GROUND LEAD to TRANSFORMER chassis. Fit the new WIRE TIES to secure the LEAD.

7. Mount the FILTER/FUSE ASSEMBLY on the COVER over PCB 209 on the HUMIDIFIER as shown below. Use the existing SCREW and fit the STAR WASHER between the two PLATES.

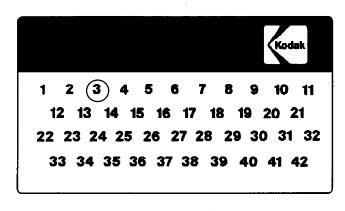


- 9. Remove the T500 mA FUSE and fit the T2
- 9. Refit the HUMIDIFIER PANEL making sure all LEADS are connected. The new LEAD from the TRANSFORMER plugs into the SOCKET on the FILTER/FUSE ASSEMBLY.
- 10. Circle MODIFICATION M03 on the MODIFICATION LABEL in the HUMIDIFIER and check the HUMIDIFIER ASSEMBLY is operating correctly.

IMPORTANT! 11.

8.

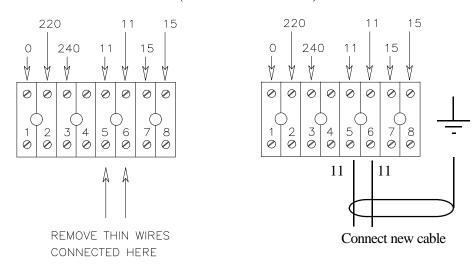
As this is not a modification to the mainframe, do not feed back to SCAN as modification M03. Use PURPOSE CODE, "KRL" and the PART NUMBER of the KIT (29054596).



MODIFICATION INSTRUCTIONS FOR MINILOADER 1 FITTED WITH MOD M35.

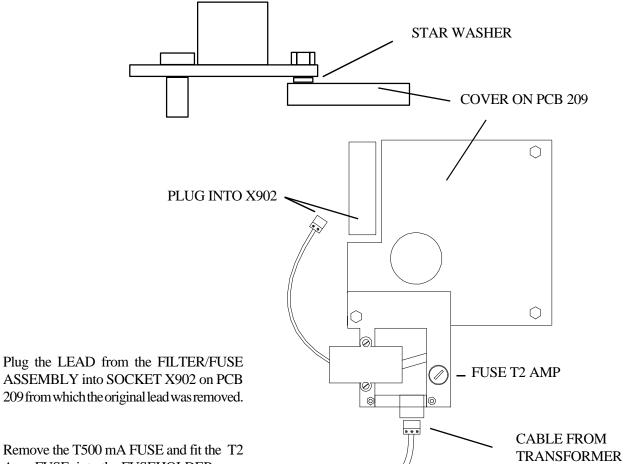
- 1. Switch off the MINILOADER, and remove the HUMIDIFIER PANEL. When removing the PANEL make sure all LEADS are carefully disconnected.
- **2.** the TRANSFORMER. See drawing below.

TB2 (ON TRANSFORMER)



- 3. Cut the WIRE TIES, remove and discard the old lead.
- 4. On both ends of the new screened POWER SUPPLY LEAD alter the CABLE MARKERS to 11's using the MARKERS 1 from the CABLE NUMBERING KIT 30027231.
- 5. Feed the new LEAD into the MINILOADER using the same routing as the original LEAD. **NOTE THE POWER SUPPLY LEAD MUST NOT TOUCH HIGH VOLTAGE OR MOVING PARTS.**
- **6.** Connect the new screened LEAD to the TRANSFORMER. Connect the WIRES marked 11 to TB2-5 and TB2-6, and the GROUND LEAD to the TRANSFORMER chassis. Fit the new WIRE TIES to secure the LEAD.

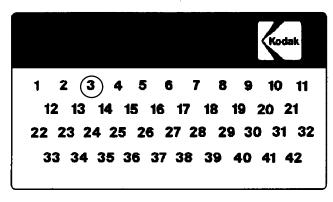
7. Mount the FILTER/FUSE ASSEMBLY on the COVER over PCB 209 on the HUMIDIFIER as shown below. Use the existing SCREW and fit the STAR WASHER between the two PLATES.



- 8. ASSEMBLY into SOCKET X902 on PCB 209 from which the original lead was removed.
- 9. Remove the T500 mA FUSE and fit the T2 Amp FUSE into the FUSEHOLDER.
- 9. Refit the HUMIDIFIER PANEL making sure all LEADS are connected. The new LEAD from the TRANSFORMER plugs into the SOCKET on the FILTER/FUSE ASSEMBLY.
- 10. Circle MODIFICATION M03 on the MODIFICATION LABEL in the **HUMIDIFIER** and check the **HUMIDIFIER** ASSEMBLY is operating correctly.

11. **IMPORTANT!**

As this is not a modification to the mainframe, do not feed back to SCAN as modification M03. Use PURPOSE CODE, "KRL" and the PART NUMBER of the KIT (29054596).





HEALTH SCIENCES DIVISION